Amendment to the Claims

throat.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for increasing pressure in a closed-loop system comprising a pump for pumping fluid in said system, a heat-generating component and a heat-rejection component, said method comprising the steps of:

situating a venturi in series in said closed-loop system; and providing a predetermined pressure at a throat of said venturi;

using said pump to cause flow in said closed-loop system in order to increase pressure in said system, thereby increasing said boiling point of the fluid, said overall pressure being greater than said predetermined pressure;

providing a secondan accumulator and a valve to cause fluid to be passed to said heat-generating component when said pump is not pumping.

2. (Original) The method as recited in claim 1 wherein said method further comprises the step of:

establishing said predetermined pressure to be atmospheric pressure at said

3. (Original) The method as recited in claim 1 wherein said method further comprises the step of:

situating an expansion tank at said throat.

4. (Original) The method as recited in claim 1 wherein said method further comprises the step of:

providing a switch for controlling the operation of said heat-generating component and causing said component to be turned on or off if a flow in said closed-loop system is above or below a predetermined flow rate.

- 5. (Original) The method as recited in claim 1 wherein said heat-generating component comprises an X-ray tube.
- 6. (Original) The method as recited in claim 4 wherein said method comprises the step of: situating said switch downstream of said venturi.
- 7. (Original) The method as recited in claim 4 wherein said predetermined pressure of that remains substantially constant as a rate of said flow changes.
- 8. (Original) The method as recited in claim 7 wherein said predetermined pressure is atmospheric.
- 9. (Original) The method as recited in claim 7 wherein said method comprises the step of: situating said switch adjacent either an inlet or outlet of said venturi.
- 10. (Original) The method as recited in claim 9 wherein said switch is situated upstream of said pump and downstream of said venturi.
- 11. (Original) The method as recited in claim 1 wherein said valve is a check valve.
- 12. (Currently Amended) The method as recited in claim 11, wherein check valve is situated between said second-accumulator and said pump.

- 13. (Currently Amended) A cooling system for cooling a component comprising:
 - a heat-rejection component;
- a pump for pumping fluid to said heat-rejection component and said component;
- a conduit for communicating fluid among said component, said heat-rejection component and said pump, said conduit comprising a venturi having a predetermined pressure applied at a throat of said venturi, an expansion tank;
 - a closed expansion tank coupled to said conduit; and
 - a valve coupled to said conduit;
- said valve and said closed expansion tank cooperating to cause flow in second said conduit to cool the component when said pump is deactivated.
- 14. (Original) The cooling system as recited in claim 13 wherein said predetermined pressure is atmospheric pressure.
- 15. (Original) The cooling system as recited in claim 13 wherein said predetermined pressure is provided by a second expansion tank in communication with a throat of said venturi.
- 16. (Original) The cooling system as recited in claim 15 wherein said second expansion tank comprises a diaphragm having one side in communication with said fluid and an opposite side subject to atmospheric pressure.
- 17. (Original) The cooling system as recited in claim 13 wherein said system further comprises a switch situated in said conduit for generating a signal used to control operation of said component when a flow rate of said fluid is not at a predetermined flow rate.
- 18. (Original) The cooling system as recited in claim 17 wherein said switch is a pressure switch measures fluid pressure relative to atmospheric pressure.

- 19. (Original) The cooling system as recited in claim 17 wherein said switch is located upstream of said pump.
- 20. (Original) The cooling system as recited in claim 18 wherein said switch is located downstream of said venturi and upstream of said pump.
- 21. (Original) The cooling system as recited in claim 20 wherein said component comprises an X-ray tube.
- 22. (Original) The cooling system as recited in claim 14 wherein said system further comprises a switch situated in said conduit for generating a signal used to control operation of said component when a flow rate of said fluid is not at a predetermined flow rate.
- 23. (Original) The cooling system as recited in claim 22 wherein said switch is located either upstream or downstream of said venturi and upstream of said pump.
- 24. (Original) The cooling system as recited in claim 23 wherein said component comprises an X-ray tube.
- 25. (Original) The cooling system as recited in claim 23 wherein said component comprises an internal combustion engine.
- 26. (Original) The cooling system as recited in claim 23 wherein said component comprises a hydronic boiler.
- 27. (Original) The method as recited in claim 13 wherein said valve is a check valve.
- 28. (Currently Amended) The method as recited in claim 27, wherein check valve is situated between said second accumulator closed expansion tank and said pump.

- 29. (Currently Amended) An X-ray system comprising:
- an X-ray apparatus for generating X-rays, said X-ray apparatus comprising an X-ray tube situated in an X-ray tube casing; and
 - a cooling system for cooling said X-ray tube, said cooling system comprising:
 - a heat-rejection component coupled to said X-ray tube casing;
- a pump for pumping fluid to said heat-rejection component and said componentx-ray tube casing;
- a conduit for communicating fluid among said X-ray tube casing, said heatrejection component and said pump, said conduit comprising a venturi having a predetermined pressure applied at a throat of said venturi, an expansion tank;
- a closed expansion tank located between said pump and said heat-rejection component; and
 - a valve located between said pump and said closed expansion tank.
- 30. (Original) The X-ray system as recited in claim 29 wherein said predetermined pressure is atmospheric pressure.
- 31. (Original) The X-ray system as recited in claim 29 wherein said predetermined pressure is provided by a second expansion tank in communication with a throat of said venturi.
- 32. (Original) The X-ray system as recited in claim 31 wherein said second expansion tank comprises a diaphragm having one side in communication with said fluid and an opposite side subject to atmospheric pressure.
- 33. (Currently Amended) The X-ray system as recited in claim 29 wherein said system further comprises a switch situated in said conduit for generating a signal used to control operation of said component x-ray tube when a flow of said fluid is not a predetermined flow rate.

- 34. (Original) The X-ray system as recited in claim 33 wherein said switch is a pressure switch that measures fluid pressure relative to atmospheric pressure.
- 35. (Original) The X-ray system as recited in claim 33 wherein said switch is located downstream or upstream of said venturi and upstream of said pump.
- 36. (Currently Amended) The X-ray system as recited in claim 30 wherein said system further comprises a switch situated in said conduit for generating a signal used to control operation of said component-x-ray tube when a flow of said fluid is not at a predetermined flow rate.
- 37. (Original) The X-ray system as recited in claim 36 wherein said switch is located either upstream or downstream of said venturi and upstream of said pump.
- 38. (Original) The X-ray system as recited in claim 34 wherein said predetermined pressure equals atmospheric pressure.
- 39. (Original) The X-ray system as recited in claim 33 wherein said predetermined pressure equals atmospheric pressure.
- 40. (Original) The X-ray system as recited in claim 36 wherein said switch is located downstream of said venturi and upstream of said pump.
- 41. (Original) The method as recited in claim 29 wherein said valve is a check valve.
- 42. (Currently Amended) The method as recited in claim 41, wherein check valve is situated between said second accumulatorclosed expansion tank and said pump.
- 43. 65 (Cancelled)